

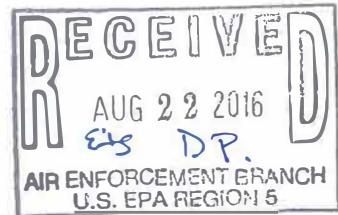


August 18, 2016

R11379-2.6

Attn: Compliance Tracker, AE-17J
Air Enforcement and Compliance Assurance Branch
U.S. Environmental Protection Agency - Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604

Ambient Air Lead Monitoring Report
Sampling Period of March 16, 2016 through July 29, 2016
Behr Iron & Metal – 1100 Seminary Street – Rockford, Illinois 61104
Site ID No.: 201030AYB



To Whom This May Concern:

Behr Iron & Metal, Inc., (Behr) has implemented an ambient air monitoring program for lead and arsenic in accordance with USEPA Regions V's Request to Provide Information Pursuant to the Clean Air Act, dated May 5, 2015. An ambient air monitoring station has been installed in accordance with the approved *Ambient Air Lead Monitoring Station Siting Proposal* dated July 7, 2014. The site began operation on September 27, 2015. Station operating procedures, sample collection and handling procedures, and sample analytical methods and procedures have been performed in accordance with the approved *Quality Assurance Project Plan (QAPP)* dated July 1, 2015.

Beginning on September 27, 2015, a 24-hour TSP sample is collected every third day, as requested by USEPA. Sampling dates have been set to meet USEPA's schedule for ambient air lead sampling (i.e. every sixth day) as identified in Attachment A. Samples are held in sealed envelopes in a controlled area on site until a minimum of eleven samples have been collected. The samples are then sent to RTI International in Research Triangle Park, North Carolina for lead and arsenic analyses, in accordance with the methods identified in the QAPP. A summary of individual lead and arsenic measurements reported by RTI for all samples is presented in Appendix B.

Behr has also installed a meteorological station to simultaneously record barometric pressure, wind speed, and wind direction during sample collection periods. Met data is presented in Appendix C as 1-hour averages.

A summary table of ambient air monitor measurements for sampling events performed from September 27, 2015 through July 29, 2016 is attached to this correspondence. This report covers a four month period (March to July 2016) because of a laboratory delay in processing available samples, and ambient air sampler malfunction.

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Ambient Air Lead Monitoring Station Monthly Report

Sampling Period of March 16, 2016 through July 29, 2016

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This table identifies the sampling date, sample duration, the 24-hour average temperature and barometric pressure data recorded by integrated sensors provided with the high volume sampler (used to adjust actual flow rate to standard conditions), average volumetric air sampling rate, total volume of air collected during each sampling event, as well as the analytical results for lead and arsenic.

The total mass of lead and arsenic on the filters is divided by the total sample volume (at standard conditions) to identify 24-hour average ambient air concentrations in Columns L and P respectively. This table also reports an overall arithmetic average concentration of lead and arsenic based on all samples collected in each calendar month in Columns M and Q respectively. Monthly averages for September 2015 are not reported because samples were collected on only two of the 10 potential sampling dates and are not representative of a monthly average.

Finally, the attached table reports the estimated number of hours in each sampling day that the ambient air sampler location was downwind of Behr's point sources of lead emissions and downwind of the entire Behr site boundary (Columns R and S respectively).

Invalid Sampler Air Flow Data:

On March 23, 2016, it was discovered that the electrical motor running the fan that pulls ambient air through the sampler failed to operate on the March 16, 19, and 22, 2016, sampling days. Therefore, the filters from these days were not analyzed. The brushes on the electrical motor were replaced on March 23, 2016.

The sampler appeared to operate normally on March 25, 28 and 31, 2016.

Beginning on April 03, 2016 and continuing through June 05, 2016, the recorded sampler air volume data were highly erratic with reported daily sample volumes ranging from 0 to 1,068 cubic meters. An inspection of the monitoring station on June 6, 2016 identified a damaged hose that is part of the sampler flow rate measurement system. This hose was presumably damaged when changing the filter after the March 31st sampling event. The hose was replaced on June 6, 2016 and the sampler appears to have returned to normal operation.

Data collected to date show that the average daily ambient air sample volume is approximately 1,780 cubic meters. Based on this discrepancy, ambient air sample volumes from the period described above, are not reliable and cannot be used to estimate daily ambient air pollutant concentrations. The filters from these dates were submitted for analysis before the sampler data, showing these discrepancies were downloaded and reviewed. The filter analytical data for the affected sampling events are reported on the attached table; however, the volume of ambient air represented by each filter is unknown.

Due to the unreliable data from above, the three month rolling average for lead concentration cannot be calculated for the months of April, May, June, and July.

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Elevated Lead Sample Results June 14 and June 17, 2016:

The analytical data for the filters collected on June 14 and 17, 2016 also showed lead levels of 2,429.39 and 1,153.49-ug of lead respectively. Facility operating data from these dates did not identify failures of air pollution control devices or other non-routine activities that could potentially contribute to elevated lead levels.

Behr has begun a material sampling program to attempt to identify other potential sources of lead-containing dust that could have potentially contributed to these elevated results. The results of this sampling program will be included in a future report.

It should be noted; however, that the meteorological station data shows that the ambient air sampler was downwind of known Behr lead emission points for 0 hours on June 14th and six hours on June 17th. Review of past sampling data also shows a correlation between the mass of lead captured on filters and the wind direction, indicating that there may be an off-site source, or off-site sources, of lead emissions contributing to measured lead levels. Figure 1 (attached) presents a graph of the averaged mass of lead collected on filters compared to the number of hours per day during which on-site met station data identified that the monitoring station was downwind of Behr emission sources. This graph shows a substantially lower average mass of lead collected on filters during days in which the monitoring station is downwind of Behr emission sources for greater than 12 hours per day. The figure also identifies the number of filters (triangular markers) included in the calculation of average lead filter mass (see secondary vertical axis) associated with the number of hours per day the monitoring station was located downwind of Behr emission sources.

Filter Reused on July 17/23, 2016:

The filter used on July 17, 2016 was inadvertently also used on July 23, 2016. Because of this incident, the lab result reported for July 17, 2016 included the mass of pollutants collected from two days of sampling (48-hours). However, since the ambient air sampler operated normally for the above two days, an average ambient air concentration associated with the filter was calculated using the report pollutant mass and the combined sample volume, such that the reported ambient air concentrations for July 17 and 23 are identical.

Behr has retained RK & Associates to assist with submitting monthly lead monitoring reports. If you have any questions, or require any additional information please do not hesitate to contact John Pinion at 630-393-9000 (jpinion@rka-inc.com).

Yours very truly,
RK & Associates, Inc.

A handwritten signature in black ink, appearing to read "John G. Pinion".

John G. Pinion
Associate Engineer

Summary of Ambient Air Monitoring Results for Lead and Arsenic Through July 29, 2016

Behr Iron & Metal, Inc. - Rockford, Illinois

Col -> A USEPA's 6 th Day Lead Sample Day (Y)	B Day of Week	C Sample Collection Date	D Sample Duration (days) (hrs)	E Avg. Temp °C	F Avg. Bar. Pres. mmHg	G Sample Rate / Volume (std)		I Sampler Data Flags	J K Lead ^a ug/filter	L Ambient Lead Concentration	N Limit is 0.15 ug/m ³ 3-Mo RA ^c ug/m ³	O Arsenic ^a ug/filter	P Ambient Arsenic Concentration		R Ambient Air Sampler is Downwind of	
						Average Rate ft ³ /min	Total m ³			Daily Average ug/m ³		Daily ug/m ³	Monthly ^b Average ug/m ³	Behr Lead Emission Points hr/day		Entire Behr Site hr/day
Y	Sun	09/27/15	24:00	21.4	743	42.6	1,735.8		58.39	0.034	NA	4.89	0.003	0.002	0	0
	Wed	09/30/15	24:00	13.1	746	43.6	1,776.4		396.60	0.223		2.25 *	0.001		7	7
Y	Sat	10/03/15	24:00	11.3	746	43.7	1,783.2		277.70	0.156		1.71 *	0.001		0	0
	Tue	10/06/15	24:00	19.4	744	42.9	1,747.4		113.90	0.065		3.00	0.002		12	15
Y	Fri	10/09/15	24:00	14.8	744	43.3	1,764.0		146.80	0.083		5.17	0.003		21	24
	Mon	10/12/15	24:00	16.9	730	42.2	1,719.5		213.70	0.124		2.66	0.002		16	16
Y	Thu	10/15/15	24:00	13.4	743	43.3	1,766.5		171.10	0.097		2.24 *	0.001		13	14
	Sun	10/18/15	24:00	10.3	751	44.1	1,798.3		33.30	0.019		7.34	0.004		3	5
Y	Wed	10/21/15	24:00	18.2	742	42.9	1,748.7		151.60	0.087		2.42	0.001		8	8
	Sat	10/24/15	24:00	15.4	738	42.9	1,749.0		57.05	0.033		1.29 *	0.001		16	16
Y	Tue	10/27/15	Programming Error in Sampler - No Sample Collected.											0.009	0	0
	Fri	10/30/15	24:00	7.4	742	43.9	1,790.4		93.76	0.052		2.01 *	0.001		2	4
Y	Mon	11/02/15	24:00	15.1	739	43.0	1,752.30		201	0.115		1.62 *	0.001		0	0
	Thu	11/05/15	24:00	18.2	738	43.6	1,776.54		131	0.074		4.56	0.003		0	0
Y	Sun	11/08/15	24:00	5.6	750	44.5	1,815.99		30.7	0.017		4.51	0.002		0	0
	Wed	11/11/15	23:00	11.5	733	42.8	1,674.80	POWER	550	0.328		15.7	0.009		0	0
Y	Sat	11/14/15	24:00	5.8	746	44.3	1,807.44		45.2	0.025		3.99	0.002		2	2
	Tue	11/17/15	24:00	11.6	736	43.5	1,773.80		142	0.080		94.4	0.053		0	0
Y	Fri	11/20/15	24:00	1.2	746	45.1	1,840.03		28.1	0.015		1.28 *	0.001		15	16
	Mon	11/23/15	24:00	-1.9	744	44.9	1,831.00		22.1	0.012		1.42 *	0.001		8	9
Y	Thu	11/26/15	Sampler operating data lost during download. Sample submitted for analysis, no concentration calculated due						48.5	0.027 d		1.21 *		0.070	2	2
	Sun	11/29/15	submitted for analysis, no concentration calculated due						14.9	0.008 d		2.83			8	8
Y	Wed	12/02/15	24:00	0.7	740	44.40	1,809.70		11.9	0.007		0.837 *	0.000		18	18
	Sat	12/05/15	24:00	1.80	754	45.20	1,841.47		88.44	0.048		11.76	0.006		0	0
Y	Tue	12/08/15	24:00	5.00	737	43.80	1,784.07		278.37	0.156		6.88	0.004		0	0
	Fri	12/11/15	24:00	8.50	736	43.30	1,767.11		518.25	0.293		6.78	0.004		10	10
Y	Mon	12/14/15	24:00	5.70	730	43.30	1,766.52		102.16	0.058		1.24 *	0.001		2	4
	Thu	12/17/15	24:00	-1.90	738	44.60	1,818.25		39.97	0.022		0.75 *	0.000		20	21
Y	Sun	12/20/15	24:00	4.40	740	44.00	1,794.21		219.32	0.122		3.36	0.002		0	0
	Wed	12/23/15	24:00	8.20	724	42.70	1,740.27		32.64	0.019		5.23	0.003		2	2
Y	Sat	12/26/15	24:00	3.00	743	44.40	1,808.77		38.07	0.021		1.03 *	0.001		2	2
	Tue	12/29/15	24:00	-2.40	743	44.90	1,830.68		9.08	0.005		0.57 *	0.000		21	21

Summary of Ambient Air Monitoring Results for Lead and Arsenic Through July 29, 2016
Behr Iron & Metal, Inc. - Rockford, Illinois

Col -> A USEPA's 6 th Day Lead Sample Day (Y)	B Day of Week	C Sample Collection Date	D Sample Duration (days) (hrs)	E Avg. Temp °C	F Avg. Bar. Pres. mmHg	G Sample Rate / Volume (std)	I	J	K	Ambient Lead Concentration		O	Ambient Arsenic Concentration		Ambient Air Sampler is Downwind of						
										Average Rate ft ³ /min	Total m ³		Sampler Data Flags	Lead ^a ug/filter	Daily Average ug/m ³	Limit is 0.15 ug/m ³ 3-Mo RA ^c ug/m ³	Arsenic ^a ug/filter	Daily ug/m ³	Monthly ^b Average ug/m ³	Behr Lead Emission Points hr/day	Entire Behr Site hr/day
Y	Fri	01/01/16	24:00	-4.20	743	45.20	1,842.21			32.00	0.017	0.073		0.54 *	0.000	0.003	17	17			
	Mon	01/04/16	24:00	-4.70	753	45.70	1,864.35			66.30	0.036			1.39 *	0.001		12	12			
Y	Thu	01/07/16	24:00	2.50	739	44.70	1,820.91			344.05	0.189			15.31	0.008		0	0			
	Sun	01/10/16	24:00	-16.00	742	47.30	1,926.73			16.04	0.008			0.46	0.000		24	24			
Y	Wed	01/13/16	24:00	-7.20	736	45.10	1,838.64			28.74	0.016			1.74 *	0.001		3	4			
	Sat	01/16/16	24:00	-11.10	740	45.60	1,861.41			27.11	0.015			0.78 *	0.000		24	24			
Y	Tue	01/19/16	24:00	-11.20	751	46.90	1,911.67			153.73	0.080			2.49	0.001		12	12			
	Fri	01/22/16	24:00	-4.60	747	45.50	1,853.59			247.44	0.133			6.25	0.003		14	14			
Y	Mon	01/25/16	24:00	0.20	734	43.90	1,790.76			511.25	0.285			30.17	0.017		2	2			
	Thu	01/28/16	24:00	-1.30	736	44.30	1,808.14			46.35	0.026			0.51 *	0.000		19	19			
Y	Sun	01/31/16	24:00	0.90	734	44.00	1,794.98			44.41	0.025			2.26 *	0.001		16	17			
	Wed	02/03/16	24:00	-3.20	739	44.80	1,826.04			10.50	0.006			0.26	0.000		15	16			
Y	Sat	02/06/16	24:00	1.30	742	44.60	1,820.46			50.30	0.028			1.37 *	0.001		9	10			
	Tue	02/09/16	24:00	-10.80	740	45.90	1,873.53			55.10	0.029			0.97 *	0.001		24	24			
Y	Fri	02/12/16	24:00	-11.00	751	46.30	1,889.02			184.63	0.098			2.10 *	0.001		24	24			
	Mon	02/15/16								43.89	0.024 e	0.102		2.96		0.001	8	9			
Y	Thu	02/18/16		Sampler operating data lost during download.						441.39	0.242 e			19.58			0	0			
	Sun	02/21/16								39.69	0.022 e			1.26 *			12	12			
Y	Wed	02/24/16								349.02	0.191 e			3.81			12	12			
	Sat	02/27/16		Filter submitted for analysis.						210.20	0.115 e			2.01 *			0	0			
Y	Tue	03/01/16								81.81	0.045 e			1.34 *			12	12			
	Fri	03/04/16		No concentration estimated due to lack of flow data						343.30	0.188 e			3.06			3	5			
Y	Mon	03/07/16								622.17	0.341 e			4.08			0	0			
	Thu	03/10/16								475.58	0.261 e	0.124		7.90		0.001	22	23			
Y	Sun	03/13/16								115.81	0.063 e			4.52			1	1			
	Wed	03/16/16		Moniting Station Sample Motor Failure - no sample collected											21	21					
Y	Sat	03/19/16		Moniting Station Sample Motor Failure - no sample collected											5	5					
	Tue	03/22/16		Moniting Station Sample Motor Failure - no sample collected											4	4					
Y	Fri	03/25/16	24:00	4.70	742	44.40	1,809.02			42.11	0.023			1.97 *	0.001		6	8			
	Mon	03/28/16	24:00	7.90	744	44.20	1,800.47			163.95	0.091			4.16	0.002		19	21			
Y	Thu	03/31/16	24:00	9.00	728	43.20	1,760.88			373.48	0.212			7.74	0.004		12	12			

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						Average Rate ft ³ /min	Total m ³			Daily Average ug/m ³	Limit is 0.15 ug/m ³ 3-Mo RA ^c ug/m ³		Daily ug/m ³	Monthly ^b Average ug/m ³	Behr Lead Emission Points hr/day	Entire Behr Site hr/day
	Sun	04/03/16	24:00	10.50	735	26.20	1,068.96		25.47	f		1.04 *	f		5	6
Y	Wed	04/06/16	24:00	6.80	730	19.70	802.61		260.18	f		2.38 *	f		13	14
	Sat	04/09/16	Lost monitoring station data						39.06	f		1.37 *	f		15	15
Y	Tue	04/12/16	24:00	7.20	749	23.50	960.88		1,580.11	f		5.62	f		12	14
	Fri	04/15/16	24:00	16.70	745	0.10	4.05		3,007.30	f		19.02	f		0	0
Y	Mon	04/18/16	0:00	21.80	746	0.00			609.81	f		5.08	f		6	10
	Thu	04/21/16	24:00	16.20	737	0.00			319.58	f		2.54	f		15	16
Y	Sun	04/24/16	24:00	20.80	736	0.00			186	f		3.45	f		0	1
	Wed	04/27/16	24:00	7.90	736	25.30	1,031.64		11,100	f		239.74	f		0	0
Y	Sat	04/30/16	24:00	8.20	739	30.40	1,239.77		124	f		4.21	f		0	0
	Tue	05/03/16	24:00	16.10	735	0.20	10.08		305	f		3.05	f		12	15
Y	Fri	05/06/16	24:00	24.30	736.00	0.00			168	f		3.02	f		15	18
	Mon	05/09/16	24:00	13.50	738.00	0.10	3.82		4,070	f		27.00	f		0	0
Y	Thu	05/12/16	24:00	15.90	740.00	7.20	295.15		87	f		3.11	f		22	22
	Sun	05/15/16	24:00	11.60	743.00	24.20	987.72		70	f		1.63 *	f		14	16
Y	Wed	05/18/16	24:00	15.90	746.00	18.50	756.46		1,200	f		22.48	f		7	7
	Sat	05/21/16	24:00	21.30	743.00	0.10	3.57		378	f		14.68	f		16	18
Y	Tue	05/24/16	24:00	26.80	739.00	0.00			521	f		4.09	f		6	7
	Fri	05/27/16	24:00	24.00	736.00	0.00			3,103.25	f		6.33	f		1	2
Y	Mon	05/30/16	24:00	26.80	740.00	0.00			119.83	f		3.47	f		15	17
	Thu	06/02/16	24:00	22.40	742.00	4.40	182.30		150.20	f		4.30	f		19	19
Y	Sun	06/05/16	24:00	22.50	734.00	0.00			404.53	f		4.90	f		22	23
	Wed	06/08/16	24:00	22.40	741.00	42.60	1,735.96		634.34	0.365		5.10	0.003		16	16
Y	Sat	06/11/16	24:00	28.60	741.00	42.00	1,714.13		207.74	0.121		6.63	0.004		16	18
	Tue	06/14/16	24:00	26.80	735.00	41.80	1,704.82		2,429.39	1.425		6.88	0.004		0	0
Y	Fri	06/17/16	24:00	26.70	744.00	42.30	1,726.79		1,153.48	0.668		22.34	0.013		6	6
	Mon	06/20/16	24:00	27.40	742.00	42.20	1,719.82		258.90	0.151		3.33	0.002		15	15
Y	Thu	06/23/16	24:00	24.40	740.00	42.30	1,725.15		374.91	0.217		3.87	0.002		5	7
	Sun	06/26/16	24:00	29.00	741.00	42.00	1,712.32		31.96	0.019		1.97 *	0.001		16	17
Y	Wed	06/29/16	24:00	24.20	743.00	42.50	1,732.65		7.05	0.004		1.86 *	0.001		17	20

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						Average Rate ft ³ /min	Total m ³			Daily Average ug/m ³	Limit is 0.15 ug/m ³ 3-Mo RA ^c ug/m ³		Daily ug/m ³	Monthly ^b Average ug/m ³	Behr Lead Emission Points hr/day	Entire Behr Site hr/day
	Sat	07/02/16	24:00	22.60	743.00	42.80	1,745.22		36.50	0.021		13.00	0.007		2	11
Y	Tue	07/05/16	23:59	27.50	738.00	41.90	1,707.65	POWER	247.00	0.145		2.22 *	0.001		13	15
	Fri	07/08/16	24:00	25.80	738.00	42.10	1,718.55		116.00	0.067		1.31 *	0.001		18	19
Y	Mon	07/11/16	24:00	29.20	738.00	41.90	1,707.99		101.00	0.059		1.21 *	0.001		0	0
	Thu	07/14/16	24:00	25.90	738.00	42.10	1,715.92		66.50	0.039		0.87 *	0.001		16	16
Y	Sun	07/17/16	24:00	27.10	741.00	42.10	1,716.88		68.20	0.020 g		1.99 *	0.001		3	3
	Wed	07/20/16	24:00	28.00	743.00	42.20	1,719.31		142.00	0.083		1.61 *	0.001		13	15
Y	Sat	07/23/16	24:00	27.40	739.00	41.90	1,710.39			0.020 g					6	8
	Tue	07/26/16	24:00	29.00	742.00	42.00	1,711.84		62.30	0.036		1.81 *	0.001		18	19
Y	Fri	07/29/16	23:59	24.30	739.00	42.30	1,722.77		97.30	0.056		12.30	0.007		2	2

a. Lab analysis by RTI International in Research Triangle Park, NC.

b. Arithmetic average of all values recorded during a calendar month.

c. Arithmetic average of values reported for USEPA lead sampling schedule date (i.e. every 6th day only - brown shaded cells) during the previous three calendar months.

d. Sampler operating data lost during download. Filter submitted for analysis. Ambient air concentration calculated using the average daily flow from the three days immediately prior to and after the period of missing data.

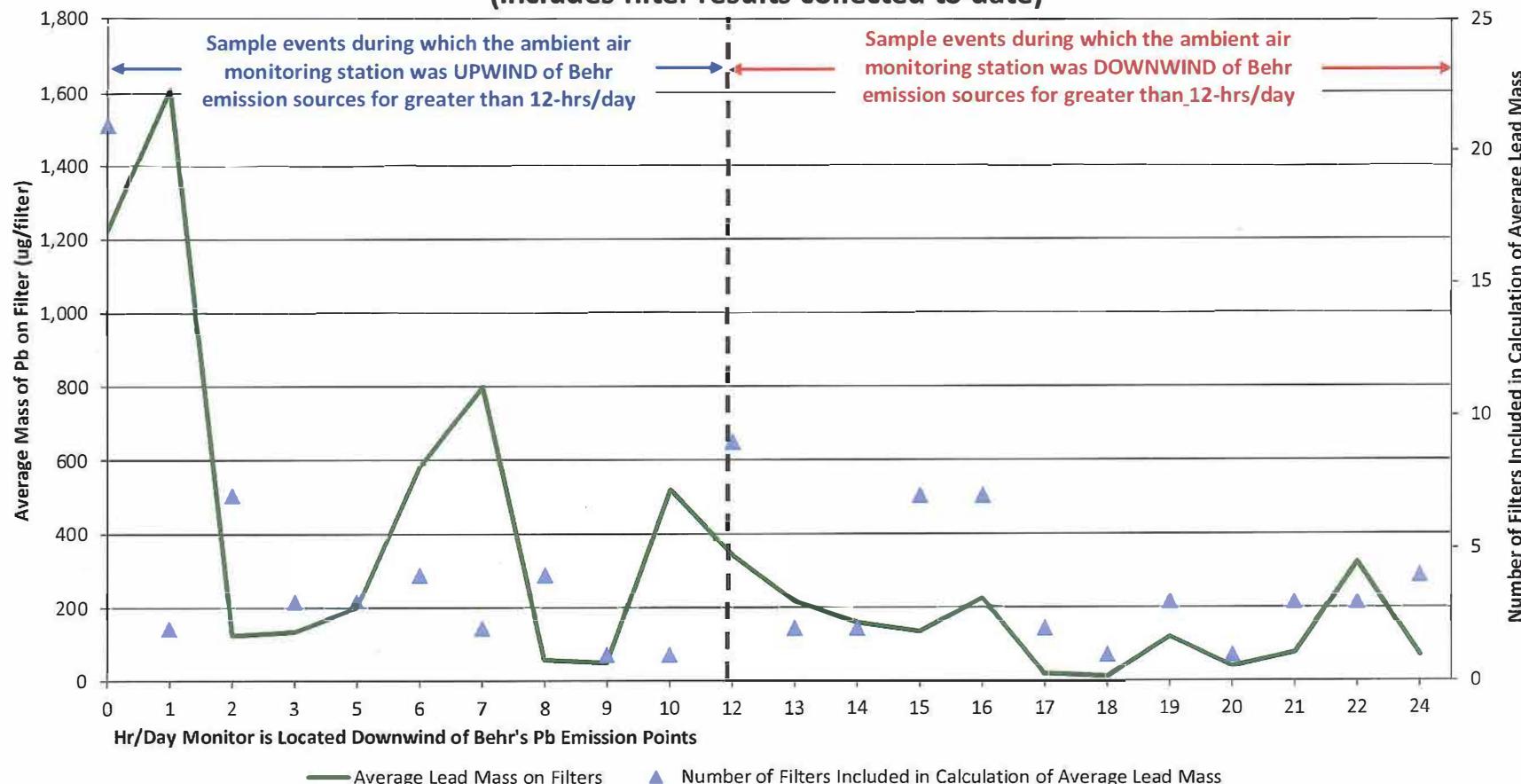
e. Sampler operating data lost during download. Filter submitted for analysis. Ambient air concentration calculated using the average daily flow from the three days immediately prior to and after the period of missing data.

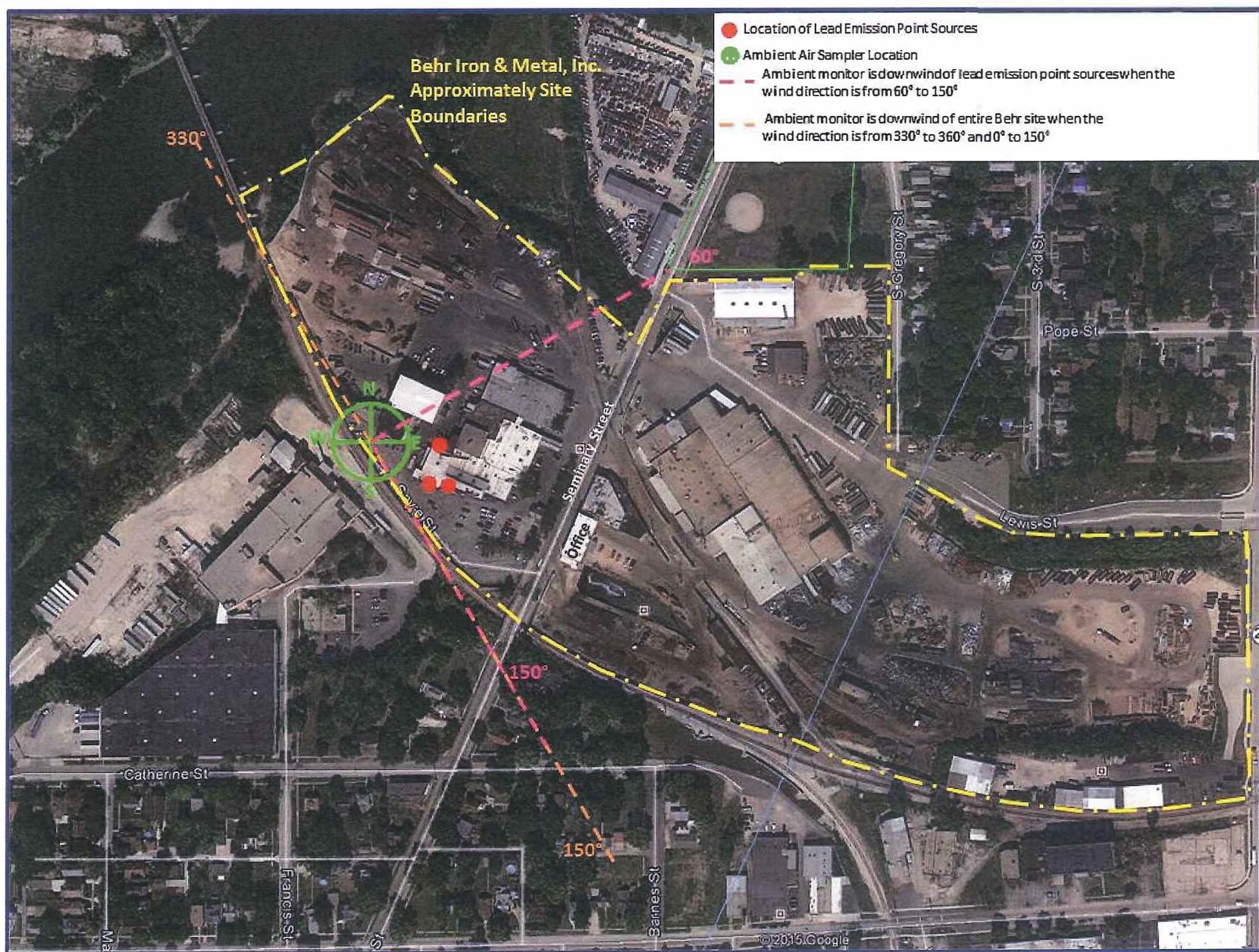
f. Sampler malfunction resulted in unreliable sample flow rate. No concentration can be calculated.

g. Filter used on July 17 was inadvertently also used on July 23. The lab result for July 17, included mass collected on the filter from both July 17, and July 23. No filter sample was sent to lab for July 23. since the ambient air sampler operated normally for the above two days, an average ambient air concentration associated with the filter was calculated using the report pollutant mass and the combined sample volume, such that the reported ambient air concentrations for July 17 and 23 are identical.

* Reported arsenic value is below the RL of 2.40 µg/filter, but over the MDL of 0.48 µg/filter.

**Figure 1 - Average Mass of Lead Captured on Filters Based on Number of Hours per Day that the Montior was Located Downwind of Behr's Emission Sources
(includes filter results collected to date)**







**Ambient Air Lead Monitoring Report
Behr Iron & Metal, INC.**

**1100 SEMINARY STREET
ROCKFORD, ILLINOIS
SITE ID NO.: 201030AYB**

Report Date: August 18, 2016

APPENDIX A

USEPA Schedule of Lead Sampling Days for 2016

EPA Sampling Schedule

2016

Important Dates

Notes

3-Day schedule is shown in orange, green, and purple

6-Day schedule is shown in green and purple

12-Day schedule is shown in purple

S	M	T	W	T	F	S
					2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

S	M	T	W	T	F	S
		1	2	3	4	5
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

S	M	T	W	T	F	S
			2	3	4	5
6	7	8	9	10	11	12
14	15	16	17	18	19	20
20	21	22	23	24	25	26
27	28	29	30	31		

S	M	T	W	T	F	S
				1	2	
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

S	M	T	W	T	F	S
			1	2	3	4
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

S	M	T	W	T	F	S
		1	2	3	4	5
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
29	30	31				

S	M	T	W	T	F	S
		1	2	3		
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

S	M	T	W	T	F	S
			1			
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
21	22	23	24	25	26	27
27	28	29	30			

S	M	T	W	T	F	S
		1	2	3	4	5
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
29	30	31				



**Ambient Air Lead Monitoring Report
Behr Iron & Metal, INC.**

**1100 SEMINARY STREET
ROCKFORD, ILLINOIS
SITE ID NO.: 201030AYB**

Report Date: August 18, 2016

APPENDIX B

**RTI International Analytical Results
March 13, 2016 through July 29, 2016**

June 20, 2016

Andrew Setter
Behr Iron & Metal
1100 Seminary Street
Rockford, IL 61104

Dear Mr. Setter:

RTI International analyzed the TSP filter samples you provided in accordance with 40 CFR Part 50, Appendix G. The results are summarized below in Table 1.

Table 1. TSP Filter Results µg/Filter			
Filter ID	Date Collected	Arsenic	Lead
9232143	3/13/2016	4.52	116
9232139	3/25/2016	<i>1.97</i>	42.1
9232138	3/28/2016	4.16	164
9232137	3/31/2016	7.74	373
9232136	4/3/2016	<i>1.04</i>	25.5
9232135	4/6/2016	2.38	260
9232134	4/9/2016	<i>1.37</i>	39.1
9232133	4/12/2016	5.62	1580
9232132	4/15/2016	19.0	3007
9232131	4/18/2016	5.08	610
9232130	4/21/2016	2.54	320

Results shown in italics are below the reporting limit and are shown for informational purposes only. Please refer to the attached spreadsheets “Behr Set 5 Data” and “2016 Pb TSP Audit Filters” for quality control information. The remaining filter sections will be held for 6 months. Please call me at 919-541-8762 or email me at fxw@rti.org if you have any questions.

Sincerely,

Frank Weber

Frank Weber
Laboratory Manager

cc: Project file 0212431.002.053
Lisa Bailey, RTI/ORC

July 5, 2016

Andrew Setter
Behr Iron & Metal
1100 Seminary Street
Rockford, IL 61104

Dear Mr. Setter:

RTI International analyzed the TSP filter samples you provided in accordance with 40 CFR Part 50, Appendix G. The results are summarized below in Table 1.

Table 1. TSP Filter Results µg/Filter			
Filter ID	Date Collected	Arsenic	Lead
9232119	5/24/2016	4.09	521
9232120	5/21/2016	14.7	378
9232121	5/18/2016	22.5	1200
9232122	5/15/2016	<i>1.63</i>	70.5
9232123	5/12/2016	3.11	86.9
9232124	5/9/2016	27.0	4070
9232125	5/6/2016	3.02	168
9232126	5/3/2016	3.05	305
9232127	4/30/2016	4.21	124
9232128	4/27/2016	240	11100
9232129	4/24/2016	3.45	186

Results shown in italics are below the reporting limit and are shown for informational purposes only. Please refer to the attached spreadsheets “Behr Set 6 Data” and “2016 Pb TSP Audit Filters” for quality control information. The remaining filter sections will be held for 6 months. Please call me at 919-541-8762 or email me at fxw@rti.org if you have any questions.

Sincerely,

Frank Weber

Frank Weber
Laboratory Manager

cc: Project file 0212431.002.053
Lisa Bailey, RTI/ORC

July 28, 2016

Andrew Setter
Behr Iron & Metal
1100 Seminary Street
Rockford, IL 61104

Dear Mr. Setter:

RTI International analyzed the TSP filter samples you provided in accordance with 40 CFR Part 50, Appendix G. The results are summarized below in Table 1.

Table 1. TSP Filter Results µg/Filter			
Filter ID	Date Collected	Arsenic	Lead
9232108	6/26/2016	<i>1.97</i>	32.0
9232109	6/23/2016	3.87	375
9232110	6/20/2016	3.33	259
9232111	6/17/2016	22.3	1153
9232112	6/14/2016	6.88	2429
9232113	6/11/2016	6.63	208
9232114	6/8/2016	5.10	634
9232115	6/5/2016	4.90	405
9232116	6/2/2016	4.30	150
9232117	5/30/2016	3.47	120
9232118	5/27/2016	6.33	3103

Results shown in italics are below the reporting limit and are shown for informational purposes only. Please refer to the attached spreadsheets “Behr Set 7 Data” and “2016 Pb TSP Audit Filters” for quality control information. The remaining filter sections will be held for 6 months. Please call me at 919-541-8762 or email me at fxw@rti.org if you have any questions.

Sincerely,

Frank Weber

Frank Weber
Laboratory Manager

cc: Project file 0212431.002.053
Lisa Bailey, RTI/ORC

August 17, 2016

Andrew Setter
Behr Iron & Metal
1100 Seminary Street
Rockford, IL 61104

Dear Mr. Setter:

RTI International analyzed the TSP filter samples you provided in accordance with 40 CFR Part 50, Appendix G. The results are summarized below in Table 1.

Table 1. TSP Filter Results µg/Filter			
Filter ID	Date Collected	Arsenic	Lead
9232102	7/14/2016	0.874	66.5
9232103	7/11/2016	1.21	101
9232104	7/8/2016	1.31	116
9232105	7/5/2016	2.22	247
9232106	7/2/2016	13.0	36.5
9232107	6/29/2016	1.86	70.5
9329397	7/29/2016	12.3	97.3
9329398	7/26/2016	1.81	62.3
9329399	7/20/2016	1.61	142
9329400	7/17/2016	1.99	68.2

Results shown in italics are below the reporting limit and are shown for informational purposes only. Please refer to the attached spreadsheets “Behr Set 8 Report” and “2016 Pb TSP Audit Filters” for quality control information. The remaining filter sections will be held for 6 months. Please call me at 919-541-8762 or email me at fxw@rti.org if you have any questions.

Sincerely,

Frank Weber

Frank Weber
Laboratory Manager

cc: Project file 0212431.002.053
Lisa Bailey, RTI/ORC



**Ambient Air Lead Monitoring Report
Behr Iron & Metal, INC.**

**1100 SEMINARY STREET
ROCKFORD, ILLINOIS
SITE ID NO.: 201030AYB**

Report Date: August 18, 2016

APPENDIX C

Meteorological Station Data – Hourly Averages

March 13, 2016 through July 29, 2016

Summary of Hourly Meteorological Data for Ambient Sampling
 Ambient Air Sampling Days in March 13, 2016 thru July 29, 2016
 Behr Iron & Metal, Inc. - Rockford, Illinois

Date	Hour	Average Barometric Pressure mmHg	Average Temp °F	Hourly Average Wind Speed mph	Hourly Average Wind Direction °	Monitoring Station is Upwind or Downwind of Behr Pb Emission Sources	Hrs/Day Monitoring Station is Downwind of Behr Pb Emission Sources	Average Wind Direction When Monitor is Downwind of Behr Pb Emission Sources	Hrs/Day Monitoring Station is Upwind of Behr Pb Emission Sources	Average Wind Direction When Monitor is Upwind of Behr Pb Emission Sources	Monitoring Station is Upwind or Downwind of Behr's Entire Site	Hrs/Day Monitoring Station is Downwind of Behr's Entire Site	Average Wind Direction When Monitor is Downwind of Behr's Entire Site	Hrs/Day Monitoring Station is Upwind of Behr's Entire Site	Average Wind Direction When Monitor is Upwind of Behr's Entire Site	Average Daily Wind Direction Deg	
03/13/16	1	761	50.6	1.56	294°	U	1	149°	23	265°	U	1	149°	23	265°	291°	
	2	761	50.4	1.89	296°	U											
	3	761	50.0	2.20	296°	U											
	4	760	50.6	3.14	295°	U											
	5	760	50.2	2.93	295°	U											
	6	759	48.6	3.11	294°	U											
	7	759	48.0	3.03	297°	U											
	8	759	48.2	1.23	300°	U											
	9	759	49.0	1.87	295°	U											
	10	758	49.3	3.81	297°	U											
	11	758	49.3	3.96	296°	U											
	12	757	49.6	6.23	293°	U											
	13	757	48.6	5.01	295°	U											
	14	756	48.2	3.74	293°	U											
	15	756	47.8	3.64	297°	U											
	16	755	47.5	2.28	291°	U											
	17	755	47.3	1.65	293°	U											
	18	755	47.0	0.37	261°	U											
	19	755	46.8	0.58	183°	U											
	20	755	46.4	0.66	159°	U											
	21	755	46.0	0.71	164°	U											
	22	755	45.8	0.63	163°	U											
	23	755	45.8	0.65	155°	U											
	24	755	45.6	0.77	149°	D											
03/16/16	1	745	53.4	3.09	291°	U	21	81°	3	279°	D	U	21	81°	3	279°	76°
	2	746	51.1	1.05	275°	U											
	3	746	50.8	3.22	270°	U											
	4	746	48.4	1.24	80°	D											
	5	746	46.9	3.88	88°	D											
	6	747	46.5	5.30	78°	D											
	7	747	45.9	6.67	80°	D											
	8	748	46.2	5.55	79°	D											
	9	749	46.4	3.68	84°	D											
	10	750	47.1	7.07	77°	D											
	11	751	47.9	9.25	74°	D											
	12	752	49.7	9.27	75°	D											
	13	753	51.8	9.50	80°	D											
	14	753	53.3	10.47	81°	D											
	15	753	54.4	10.32	71°	D											
	16	754	54.9	10.58	73°	D											
	17	754	55.0	8.92	79°	D											
	18	755	54.3	8.41	75°	D											
	19	755	52.2	6.51	77°	D											
	20	756	50.6	4.88	73°	D											
	21	756	49.0	4.63	74°	D											
	22	756	47.5	4.04	77°	D											
	23	757	46.1	2.56	79°	D											
	24	757	45.5	0.14	141°	D											
03/19/16	1	766	37.9	1.72	304°	U	5	122°	19	264°	D	U	5	122°	19	264°	283°
	2	766	37.4	2.31	296°	U											
	3	766	37.1	1.83	297°	U											
	4	765	36.5	2.92	298°	U											
	5	765	35.6	2.94	294°	U											
	6	765	35.4	2.17	299°	U											
	7	766	35.1	1.70	299°	U											
	8	766	34.8	0.44	186°	U											
	9	766	35.4	1.78	294°	U											
	10	766	36.8	0.47	258°	U											
	11	767	38.3	0.21	250°	U											
	12	767	41.5	0.95	137°	D											
	13	766	43.5	1.25	116°	D											
	14	766	43.2	1.87	98°	D											
	15	766	44.5	1.87	113°	D											
	16	766	43.7	1.92	148°	D											
	17	766	41.8	0.95	171°	U											
	18	766	40.5	1.14	151°	U											
	19	766	40.3	0.96	176°	U											
	20	767	38.7	1.14	276°	U											
	21	767	36.8	2.33	295°	U											
	22	768	36.4	2.71	29												

**Summary of Hourly Meteorological Data for Ambient Sampling
Ambient Air Sampling Days in March 13, 2016 thru July 29, 2016
Behr Iron & Metal, Inc. - Rockford, Illinois**

**Summary of Hourly Meteorological Data for Ambient Sampling
Ambient Air Sampling Days in March 13, 2016 thru July 29, 2016**
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Summary of Hourly Meteorological Data for Ambient Sampling
Ambient Air Sampling Days in March 13, 2016 thru July 29, 2016
Behr Iron & Metal, Inc. - Rockford, Illinois

Date	Hour	Average Barometric Pressure mmHg	Average Temp °F	Hourly Average Wind Speed mph	Hourly Average Wind Direction *	Monitoring Station is Upwind or Downwind of Behr Pb Emission Sources	Hrs/Day Monitoring Station is Downwind of Behr Pb Emission Sources	Average Wind Direction When Monitor is Downwind of Behr Pb Emission Sources	Hrs/Day Monitoring Station is Upwind of Behr Pb Emission Sources	Average Wind Direction When Monitor is Upwind of Behr Pb Emission Sources	Monitoring Station is Upwind or Downwind of Behr's Entire Site	Hrs/Day Monitoring Station is Downwind of Behr's Entire Site	Average Wind Direction When Monitor is Downwind of Behr's Entire Site	Hrs/Day Monitoring Station is Upwind of Behr's Entire Site	Average Wind Direction When Monitor is Upwind of Behr's Entire Site	Average Wind Direction When Monitor is Downwind of Behr's Entire Site	Average Wind Direction When Monitor is Upwind of Behr's Entire Site	Average Daily Wind Direction Deg
04/18/16	1	770	64.1	1.34	297° U		6	84°	18	257°	10	98°	14	297°	305°			
	2	770	61.8	1.34	299° U													
	3	770	59.2	0.43	306° U													
	4	770	55.8	0.16	54° U													
	5	770	53.8	0.03	82° D													
	6	770	52.9	0.38	64° D													
	7	770	53.2	0.32	342° U													
	8	770	56.5	0.35	297° U													
	9	770	64.7	0.84	289° U													
	10	770	71.0	2.05	302° U													
	11	770	77.1	0.82	314° U													
	12	770	79.4	1.57	292° U													
	13	769	81.0	0.95	302° U													
	14	768	82.4	0.45	54° U													
	15	768	82.9	0.92	292° U													
	16	767	82.8	1.37	307° U													
	17	767	82.7	0.75	21° U													
	18	767	81.8	0.79	77° D													
	19	767	80.6	0.85	85° D													
	20	767	77.4	0.14	109° D													
	21	766	73.6	0.05	87° D													
	22	767	72.5	2.07	281° U													
	23	767	71.1	2.11	287° U													
	24	767	69.4	2.25	298° U													
04/21/16	1	759	58.4	3.73	301° U		15	93°	9	270°	16	89°	8	301°	34°			
	2	759	57.7	3.50	296° U													
	3	759	57.9	2.60	298° U													
	4	758	58.2	2.12	303° U													
	5	758	58.2	1.61	298° U													
	6	758	58.3	0.84	316° U													
	7	758	57.5	2.21	81° D													
	8	758	56.9	1.09	98° D													
	9	758	61.6	1.23	119° D													
	10	758	65.3	1.68	112° D													
	11	758	66.7	2.01	92° D													
	12	758	68.0	1.60	89° D													
	13	758	69.1	2.07	92° D													
	14	757	69.8	2.13	91° D													
	15	757	71.1	0.54	22° U													
	16	756	72.3	1.00	72° D													
	17	756	71.8	1.09	77° D													
	18	757	64.5	3.53	69° D													
	19	758	58.1	1.13	77° D													
	20	758	58.2	1.77	300° U													
	21	758	57.4	1.27	296° U													
	22	758	55.7	0.34	136° D													
	23	758	54.5	0.63	111° D													
	24	758	53.2	0.44	78° D													
04/24/16	1	763	50.5	3.44	287° U		0	NA	24	285°	1	19°	23	296°	297°			
	2	763	49.3	2.60	289° U													
	3	763	48.4	2.37	288° U													
	4	763	48.2	2.90	287° U													
	5	763	47.2	2.33	292° U													
	6	762	46.8	2.13	292° U													
	7	762	47.9	2.59	289° U													
	8	762	50.0	3.61	287° U													
	9	761	55.7	4.85	288° U													
	10	761	60.0	4.46	291° U													
	11	761	65.3	4.11	307° U													
	12	760	69.3	4.63	304° U													
	13	760	71.9	4.83	301° U													
	14	759	74.9	3.71	297° U													
	15	759	76.9	2.82	296° U													

**Summary of Hourly Meteorological Data for Ambient Sampling
Ambient Air Sampling Days in March 13, 2016 thru July 29, 2016**
Behr Iron & Metal, Inc. - Rockford, Illinois

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Date	Hour	Average Barometric Pressure mmHg	Average Temp °F	Hourly Average Wind Speed mph	Hourly Average Wind Direction *	Monitoring Station is Upwind or Downwind of Behr Pb Emission Sources	Hrs/Day Monitoring Station is Downwind of Behr Pb Emission Sources	Average Wind Direction When Monitor Is Downwind of Behr Pb Emission Sources	Hrs/Day Monitoring Station is Upwind of Behr Pb Emission Sources	Average Wind Direction When Monitor Is Upwind of Behr Pb Emission Sources	Monitoring Station is Upwind or Downwind of Behr's Entire Site	Hrs/Day Monitoring Station is Downwind of Behr's Entire Site	Average Wind Direction When Monitor Is Downwind of Behr's Entire Site	Hrs/Day Monitoring Station is Upwind of Behr's Entire Site	Average Wind Direction When Monitor Is Upwind of Behr's Entire Site	Average Daily Wind Direction Deg
05/24/16	1	760	65.1	0.88	70°	D	6	75°	18	304°	7	113°	17	302°	304°	
	2	760	63.2	0.70	61*	D										
	3	761	61.8	0.54	73*	D										
	4	761	63.0	0.41	300°	U										
	5	761	61.6	0.38	330°	U										
	6	761	60.5	0.65	324*	U										
	7	761	60.8	0.51	338*	U										
	8	762	65.7	2.80	300°	U										
	9	761	71.2	3.41	299*	U										
	10	761	75.3	3.39	295*	U										
	11	761	79.4	3.41	303*	U										
	12	761	81.9	3.97	296*	U										
	13	761	83.4	2.75	293*	U										
	14	761	84.7	1.83	285*	U										
	15	760	86.7	1.78	307*	U										
	16	760	87.0	2.21	302*	U										
	17	760	87.2	1.52	296*	U										
	18	760	86.6	0.19	315*	U										
	19	760	86.5	1.54	282*	U										
	20	760	85.1	0.71	296*	U										
	21	760	80.3	0.19	89*	D										
	22	761	78.0	0.35	73*	D										
	23	761	77.1	1.34	86*	D										
	24	761	75.3	0.93	304*	U										
05/27/16	1	759	71.7	0.81	71*	D	1	71*	23	302°	2	203°	22	301°	302°	
	2	759	71.5	0.36	335*	U										
	3	759	71.5	1.46	309*	U										
	4	759	72.1	2.71	311*	U										
	5	759	72.0	1.40	284*	U										
	6	759	71.1	0.46	309*	U										
	7	758	70.5	0.53	276*	U										
	8	759	71.3	2.14	300*	U										
	9	759	71.7	2.45	311*	U										
	10	759	73.2	3.01	311*	U										
	11	759	76.7	3.93	304*	U										
	12	759	79.8	3.85	306*	U										
	13	758	80.8	5.35	298*	U										
	14	758	81.5	5.42	299*	U										
	15	757	80.7	4.67	302*	U										
	16	758	72.1	3.29	291*	U										
	17	758	71.2	3.85	306*	U										
	18	757	74.3	2.84	299*	U										
	19	757	76.6	2.40	301*	U										
	20	757	77.3	2.54	297*	U										
	21	757	75.8	2.92	306*	U										
	22	757	75.0	3.29	302*	U										
	23	758	74.4	4.26	298*	U										
	24	758	72.2	4.41	299*	U										
05/30/16	1	762	68.1	1.13	89*	D	15	99°	9	222°	17	90°	7	280°	86°	
	2	763	68.1	1.06	84*	D										
	3	762	65.7	0.47	314*	U										
	4	762	64.9	0.55	304*	U										
	5	762	64.1	0.24	321*	U										
	6	763	63.3	0.10	29*	U										
	7	763	64.3	0.06	10*	U										
	8	763	67.5	0.80	81*	D										
	9	763	74.6	0.40	114*	D										
	10	763	79.6	0.88	106*	D										
	11	763	80.5	2.52	78*	D										
	12	763	82.8	2.62	93*	D										
	13	763	84.5	3.09	90*	D										
	14	762	86.3	2.29	99*	D										
	15	762	86.9	2.58	89*	D										
	16	761	87.3	1.63	94*	D										
	17	761	86.1	1.60	90*	D										
	18	761	87.6	0.74	118*	D										
	19	761	88.6	0.75	121*	D										
	20	761	85.9	0.57	141*	D										
	21	761	81.0	0.32	159*	U										
	22	761	77.3	0.46	283*	U										
	23	762	75.5	2.39	292*	U										
	24	762	72.6	2.90	288*	U										

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Date	Hour	Average Barometric Pressure mmHg	Average Temp °F	Hourly Average Wind Speed mph	Hourly Average Wind Direction *	Monitoring Station is Upwind or Downwind of Behr Pb Emission Sources	Hrs/Day Monitoring Station is Downwind of Behr Pb Emission Sources	Average Wind Direction When Monitor is Downwind of Behr Pb Emission Sources	Hrs/Day Monitoring Station is Upwind of Behr Pb Emission Sources	Average Wind Direction When Monitor is Upwind of Behr Pb Emission Sources	Monitoring Station is Upwind or Downwind of Behr's Entire Site	Hrs/Day Monitoring Station is Downwind of Behr's Entire Site	Average Wind Direction When Monitor is Downwind of Behr's Entire Site	Hrs/Day Monitoring Station is Upwind of Behr's Entire Site	Average Wind Direction When Monitor is Upwind of Behr's Entire Site	Average Daily Wind Direction Deg
06/02/16	1	762	63.3	0.54	303°	U	19	89°	5	303°	19	89°	5	303°	85°	
	2	762	62.2	1.00	304°	U										
	3	762	60.8	0.41	78°	D										
	4	762	60.3	1.09	297°	U										
	5	762	59.6	0.89	299°	U										
	6	763	58.7	0.75	305°	U										
	7	763	60.7	1.01	87°	D										
	8	764	63.9	1.38	110°	D										
	9	764	67.9	1.42	96°	D										
	10	764	70.9	2.43	81°	D										
	11	764	72.8	2.21	92°	D										
	12	764	73.7	3.53	89°	D										
	13	763	75.5	2.83	82°	D										
	14	763	76.8	2.85	85°	D										
	15	763	77.7	3.11	86°	D										
	16	762	78.8	2.74	91°	D										
	17	762	79.0	3.29	84°	D										
	18	762	79.0	2.60	91°	D										
	19	762	78.2	2.30	99°	D										
	20	763	75.8	1.69	103°	D										
	21	763	71.3	1.17	99°	D										
	22	763	68.6	0.54	96°	D										
	23	764	65.6	1.22	60°	D										
	24	764	63.0	0.74	85°	D										
06/05/16	1	755	66.7	1.77	90°	D	22	97°	2	77°	23	93°	1	152°	95°	
	2	754	64.5	2.20	84°	D										
	3	754	63.3	2.11	96°	D										
	4	754	62.3	1.70	93°	D										
	5	754	61.0	1.56	98°	D										
	6	754	61.5	1.99	110°	D										
	7	755	62.5	2.18	110°	D										
	8	755	64.0	2.07	120°	D										
	9	755	66.2	2.67	114°	D										
	10	755	67.9	3.74	104°	D										
	11	755	70.1	3.32	102°	D										
	12	755	73.3	3.43	97°	D										
	13	755	75.1	4.08	93°	D										
	14	755	76.4	4.57	97°	D										
	15	755	78.5	4.65	96°	D										
	16	754	80.4	4.14	91°	D										
	17	754	81.1	4.87	87°	D										
	18	754	81.0	4.81	86°	D										
	19	754	80.1	4.77	86°	D										
	20	754	77.4	3.91	88°	D										
	21	754	72.7	2.34	89°	D										
	22	754	68.2	1.54	94°	D										
	23	755	69.7	0.48	152°	U										
	24	755	67.1	0.23	2°	U										
06/08/16	1	760	57.7	0.49	97°	D	16	99°	8	266°	16	99°	8	266°	89°	
	2	760	57.3	0.64	98°	D										
	3	761	56.6	0.60	104°	D										
	4	761	55.1	0.19	329°	U										
	5	761	53.4	0.71	308°	U										
	6	762	52.8	0.44	314°	U										
	7	762	54.1	0.98	96°	D										
	8	763	57.6	0.69	121°	D										
	9	763	63.0	0.56	138°	D										
	10	763	68.0	0.58	160°	U										
	11	763	71.1	0.60	154°	U										
	12	763	72.3	2.02	85°	D										
	13	763	75.0	1.59	127°	D										
	14	762	76.8	1.33	110°	D										
	15	762	77.6	1.84	102°	D										
	16	762	78.5	2.03	97°	D										
	17	762	79.4	1.58	79°	D										
	18	761	79.5	2.11	84°	D										
	19	761	79.7	1.88	88°	D										
	20	761	77.3	1.60	86°	D										
	21	761	71.8	0.48	66°	D										
	22	762	67.8	2.08	293°	U										
	23	762	64.4	3.73	284°	U										
	24	762	62.4	3.09	285°	U										

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06/11/16	1	761	72.9	0.45	331°	U	16	83°	8	276°	D	18	96°	6	304°	73°
	2	760	71.9	2.22	309°	U										
	3	760	71.5	0.76	300°	U										
	4	760	71.1	0.31	309°	U										
	5	760	72.8	0.96	293°	U										
	6	760	72.7	1.11	303°	U										
	7	760	72.6	0.89	310°	U										
	8	761	74.2	0.53	56°	U										
	9	761	78.0	1.92	82°	D										
	10	762	82.5	1.68	83°	D										
	11	762	84.0	1.87	82°	D										
	12	762	86.9	1.56	84°	D										
	13	762	88.6	2.29	91°	D										
	14	761	90.3	2.73	91°	D										
	15	761	91.3	2.40	86°	D										
	16	761	90.9	3.44	82°	D										
	17	761	91.0	3.66	78°	D										
	18	761	91.0	2.52	83°	D										
	19	761	90.4	2.27	80°	D										
	20	761	88.7	2.04	79°	D										
	21	761	84.9	0.75	92°	D										
	22	762	81.0	0.53	91°	D										
	23	762	79.1	0.48	85°	D										
	24	762	77.9	0.14	65°	D										
06/14/16	1	759	74.1	3.72	283°	U	0	NA	24	289°	U	0	NA	24	289°	290°
	2	759	72.3	2.89	291°	U										
	3	759	69.2	2.60	296°	U										
	4	759	68.2	2.10	291°	U										
	5	759	67.8	1.48	293°	U										
	6	759	67.0	1.13	288°	U										
	7	759	67.8	0.59	272°	U										
	8	759	69.8	0.96	267°	U										
	9	759	73.5	2.48	283°	U										
	10	759	75.8	5.22	286°	U										
	11	759	78.1	5.35	286°	U										
	12	759	82.3	4.05	288°	U										
	13	759	85.6	4.03	294°	U										
	14	758	87.0	4.05	298°	U										
	15	757	88.1	4.04	289°	U										
	16	757	89.3	4.55	289°	U										
	17	756	88.1	4.84	289°	U										
	18	756	86.7	4.37	290°	U										
	19	756	80.4	3.91	303°	U										
	20	756	78.2	3.71	290°	U										
	21	756	77.8	4.08	293°	U										
	22	756	77.1	3.80	288°	U										
	23	756	76.4	4.15	288°	U										
	24	755	76.1	5.55	290°	U										
06/17/16	1	762	66.4	0.65	184°	U	6	125°	18	268°	U	6	125°	18	268°	284°
	2	763	65.3	0.62	136°	D										
	3	763	64.2	0.68	110°	D										
	4	763	62.8	0.83	117°	D										
	5	763	62.3	0.94	132°	D										
	6	763	61.8	0.76	118°	D										
	7	764	62.8	0.58	137°	D										
	8	764	65.5	0.86	157°	U										
	9	764	70.5	0.71	177°	U										
	10	764	76.5	0.98	262°	U										
	11	764	78.9	4.28	285°	U										
	12	764	81.0	4.45	287°	U										
	13	764	83.0	4.22	289°	U										
	14	764	84.6	3.77	294°	U										
	15	764	85.8	3.02	289°	U										
	16	765	86.9	2.11	276°	U										
	17	764	86.3	3.61	287°	U										
	18	764	86.0	3.15	288°	U										
	19	764	85.6	3.03	289°	U										
	20	764	83.3	4.59	291°	U										
	21	764	80.7	2.33	294°	U										
	22	765	77.9	1.65	295°	U										
	23	766	75.5	1.09	299°	U										

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06/20/16	1	764	77.1	1.94	299°	U	15	94°	9	283°	U	15	94°	9	283°	84°
	2	764	76.4	1.55	299°	U										
	3	764	76.3	1.39	286°	U										
	4	764	77.9	2.91	280°	U										
	5	764	77.2	1.97	283°	U										
	6	764	76.7	2.72	282°	U										
	7	764	77.4	2.88	283°	U										
	8	764	78.7	2.40	278°	U										
	9	764	79.9	0.40	263°	U										
	10	764	82.7	3.27	88°	D										
	11	763	84.7	3.95	78°	D										
	12	763	85.7	3.78	80°	D										
	13	763	87.5	3.97	79°	D										
	14	763	90.0	3.46	91°	D										
	15	763	92.0	4.47	90°	D										
	16	763	91.9	3.94	95°	D										
	17	763	91.6	3.17	98°	D										
	18	763	88.8	3.14	98°	D										
	19	763	87.2	2.92	106°	D										
	20	763	84.4	2.75	96°	D										
	21	763	79.9	2.30	104°	D										
	22	763	76.8	1.86	109°	D										
	23	764	73.9	1.46	98°	D										
	24	764	71.2	1.45	93°	D										
06/23/16	1	757	69.8	2.30	293°	U	5	103°	19	220°	U	7	79°	17	243°	272°
	2	757	69.5	2.00	282°	U										
	3	757	69.9	1.91	296°	U										
	4	757	69.9	1.96	288°	U										
	5	757	69.7	2.53	296°	U										
	6	758	69.3	0.41	26°	U										
	7	758	69.3	0.33	14°	U										
	8	758	69.4	1.60	79°	D										
	9	759	70.8	2.15	81°	D										
	10	759	72.3	1.28	100°	D										
	11	759	72.9	0.95	117°	D										
	12	760	76.8	0.19	188°	U										
	13	759	81.4	0.90	140°	D										
	14	760	77.3	3.86	288°	U										
	15	760	78.2	3.59	286°	U										
	16	760	79.9	0.92	256°	U										
	17	760	80.9	0.74	240°	U										
	18	760	80.3	0.76	219°	U										
	19	761	76.9	1.02	217°	U										
	20	761	74.7	0.99	254°	U										
	21	761	72.5	0.80	205°	U										
	22	762	70.7	0.68	182°	U										
	23	762	69.0	0.86	168°	U										
	24	763	67.5	0.78	174°	U										
06/26/16	1	761	80.4	2.84	309°	U	16	88°	8	273°	U	17	85°	7	304°	67°
	2	761	79.9	2.54	306°	U										
	3	760	78.7	2.06	303°	U										
	4	760	77.8	2.92	307°	U										
	5	760	77.2	2.19	307°	U										
	6	762	77.7	1.48	293°	U										
	7	762	75.5	2.96	85°	D										
	8	763	72.6	2.07	92°	D										
	9	762	73.4	1.63	301°	U										
	10	762	74.4	1.11	59°	U										
	11	763	77.6	3.02	91°	D										
	12	763	81.0	2.62	91°	D										
	13	763	83.1	2.48	86°	D										
	14	763	86.4	1.88	86°	D										
	15	763	89.8	2.49	84°	D										
	16	762	90.2	3.25	89°	D										
	17	762	89.7	3.77	92°	D										
	18	762	89.1	3.53	92°	D										
	19	762	88.6	2.53	85°	D										
	20	762	86.0	2.65	79°	D										
	21	762	81.8	1.34	89°	D										
	22	763	78.6	0.43	74°	D										
	23	763	76.1	1.31	87°	D										
	24	763	74.8	0.75	102°	D										

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06/29/16	1	766	62.6	1.62	299°	U	17	92°	7	188°	D	20	85°	4	295°	73°
	2	766	60.7	1.11	306°	U										
	3	767	58.6	0.45	295°	U										
	4	766	56.6	0.45	87°	D										
	5	766	56.3	0.69	74°	D										
	6	766	55.5	0.75	83°	D										
	7	766	57.2	0.66	76°	D										
	8	766	61.1	0.43	101°	D										
	9	766	68.1	0.59	133°	D										
	10	766	73.7	1.14	109°	D										
	11	766	76.1	0.70	125°	D										
	12	766	75.8	0.39	124°	D										
	13	765	77.7	1.38	82°	D										
	14	765	78.3	1.11	71°	D										
	15	765	80.1	1.86	84°	D										
	16	764	80.2	1.21	78°	D										
	17	764	78.6	0.84	56°	U										
	18	764	78.2	0.28	63°	D										
	19	764	78.6	0.51	31°	U										
	20	764	76.9	0.79	281°	U										
	21	764	73.2	0.41	105°	D										
	22	764	69.8	0.41	79°	D										
	23	764	67.0	0.70	83°	D										
	24	764	65.8	0.26	47°	U										
07/02/16	1	767	62.7	1.41	314°	U	2	80°	22	279°	U	11	208°	13	308°	313°
	2	767	61.4	0.63	321°	U										
	3	766	59.6	0.17	50°	U										
	4	766	59.4	0.43	327°	U										
	5	766	59.4	0.21	1°	U										
	6	766	59.3	1.33	300°	U										
	7	766	60.0	0.63	309°	U										
	8	767	61.7	0.33	45°	U										
	9	767	64.4	0.54	333°	U										
	10	767	68.9	0.35	317°	U										
	11	767	72.7	0.65	333°	U										
	12	766	73.3	2.38	301°	U										
	13	766	73.4	2.66	295°	U										
	14	766	74.5	1.20	305°	U										
	15	766	74.7	1.05	315°	U										
	16	766	74.8	1.00	299°	U										
	17	765	74.6	0.52	350°	U										
	18	765	73.8	0.18	69°	D										
	19	765	72.9	0.24	321°	U										
	20	765	71.6	0.54	286°	U										
	21	765	69.6	0.14	90°	D										
	22	766	67.0	0.28	331°	U										
	23	765	65.6	0.33	349°	U										
	24	765	64.6	0.18	334°	U										
07/05/16	1	759	71.4	0.89	93°	D	13	82°	11	282°	D	15	98°	9	301°	327°
	2	759	71.1	0.57	92°	D										
	3	759	70.8	0.77	99°	D										
	4	759	70.8	0.56	81°	D										
	5	759	70.5	1.16	90°	D										
	6	759	70.6	0.43	71°	D										
	7	759	71.0	0.32	82°	D										
	8	759	72.5	0.29	70°	D										
	9	760	74.0	0.75	88°	D										
	10	760	77.1	0.57	77°	D										
	11	760	79.6	0.77	77°	D										
	12	760	80.5	0.86	75°	D										
	13	760	82.8	0.83	54°	U										
	14	760	84.1	1.36	75°	D										
	15	759	85.4	0.49	340°	U										
	16	759	86.1	2.20	300°	U										
	17	759	87.2	1.97	303°	U										
	18	758	86.9	2.01	290°	U										
	19	758	85.6	3.10	297°	U										
	20	758	84.4	2.74	295°	U										
	21	758	82.2	2.33	309°	U										
	22	758	80.6	1.80	302°	U										
	23	758	78.7	2.32	307°	U										
	24	758	77.8	2.34	307°	U										

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07/08/16	1	757	73	0	302*	U	18	90°	6	264°	19	88*	5	306°	87°	
	2	757	71.9	0.84	309*	U										
	3	757	71.2	1.61	308*	U										
	4	758	70.7	0.63	313*	U										
	5	758	71.1	2.01	80*	D										
	6	758	71.5	0.61	70*	D										
	7	758	71.9	1.60	300*	U										
	8	758	73.7	0.60	50*	U										
	9	758	76.8	2.30	82*	D										
	10	758	80.0	3.11	79*	D										
	11	758	81.5	3.69	87*	D										
	12	758	82.3	3.63	93*	D										
	13	758	83.6	3.67	95*	D										
	14	758	84.8	4.30	87*	D										
	15	758	84.7	5.20	87*	D										
	16	758	85.3	5.43	83*	D										
	17	758	85.2	5.07	91*	D										
	18	758	83.5	4.54	101*	D										
	19	758	82.5	3.56	104*	D										
	20	759	79.5	2.53	117*	D										
	21	759	76.0	1.74	116*	D										
	22	760	73.4	2.28	84*	D										
	23	760	71.5	1.88	83*	D										
	24	760	69.6	2.22	74*	D										
07/11/16	1	761	74.9	2.56	295*	U	0	NA	24	303°	0	NA	24	303°	304*	
	2	761	73.3	2.23	294*	U										
	3	761	72.8	2.29	287*	U										
	4	761	72.3	2.51	293*	U										
	5	761	72.0	1.70	301*	U										
	6	761	71.5	1.66	305*	U										
	7	761	72.0	2.17	299*	U										
	8	760	74.4	3.23	307*	U										
	9	761	78.0	3.99	302*	U										
	10	760	81.2	4.49	303*	U										
	11	760	84.1	4.25	299*	U										
	12	761	86.8	4.16	298*	U										
	13	761	88.8	4.52	305*	U										
	14	760	89.7	4.81	303*	U										
	15	760	90.3	5.24	302*	U										
	16	760	90.2	5.69	302*	U										
	17	759	90.3	5.56	306*	U										
	18	759	89.3	5.64	309*	U										
	19	759	88.6	5.08	308*	U										
	20	759	86.9	4.88	312*	U										
	21	758	84.3	4.30	310*	U										
	22	759	82.2	4.28	311*	U										
	23	759	80.8	4.28	308*	U										
	24	759	79.7	4.58	310*	U										
07/14/16	1	759	69.6	1.87	288*	U	16	86*	8	297°	16	86*	8	297*	77*	
	2	759	69.0	1.26	304*	U										
	3	758	68.2	1.05	298*	U										
	4	758	67.5	1.31	297*	U										
	5	758	67.0	1.84	299*	U										
	6	758	66.6	1.90	305*	U										
	7	759	67.5	2.49	294*	U										
	8	759	69.8	1.19	288*	U										
	9	760	74.3	2.47	88*	D										
	10	760	77.9	2.95	84*	D										
	11	760	80.1	3.67	83*	D										
	12	759	82.4	3.43	79*	D										
	13	759	83.8	4.49	75*	D										
	14	759	84.7	5.21	83*	D										
	15	759	85.3	5.23	80*	D										
	16	759	85.5	5.85	82*	D										
	17	759	84.6	5.90	79*	D										
	18	759	84.2	4.94	90*	D										
	19	759	82.3	4.79	94*	D										
	20	759	80.9	3.05	97*	D										
	21	760	77.7	2.42	89*	D										
	22	760	75.2	2.24	93*	D										
	23	761	73.3	2.36	89*	D										
	24	761	71.4	2.03	87*	D										

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07/17/16	1	764	68.3	1.44	297°	U	3	87°	21	289°	U	3	87°	21	289°	295°	
	2	764	67.7	2.14	286°	U											
	3	764	67.3	2.08	295°	U											
	4	763	67.0	2.20	298°	U											
	5	763	67.7	2.79	297°	U											
	6	763	67.6	2.85	298°	U											
	7	762	67.3	3.57	293°	U											
	8	762	68.1	2.54	306°	U											
	9	760	68.9	5.12	298°	U											
	10	760	71.7	5.67	303°	U											
	11	761	73.9	4.09	291°	U											
	12	761	78.9	2.18	279°	U											
	13	762	81.4	0.86	282°	U											
	14	762	82.0	0.50	251°	U											
	15	762	82.2	0.92	285°	U											
	16	761	81.1	2.17	291°	U											
	17	761	81.8	1.48	308°	U											
	18	761	82.7	3.23	282°	U											
	19	761	82.4	2.18	273°	U											
	20	762	81.7	1.34	272°	U											
	21	762	80.3	1.33	277°	U											
	22	762	78.6	1.11	91°	D											
	23	762	77.4	1.71	85°	D											
	24	763	76.5	1.95	83°	D											
07/20/16	1	767	71.4	0.89	93°	D	13	82°	11	282°	D	15	98°	9	301°	302°	
	2	759	71.1	0.57	92°	D											
	3	759	70.8	0.77	99°	D											
	4	759	70.8	0.56	81°	D											
	5	759	70.5	1.16	90°	D											
	6	759	70.6	0.43	71°	D											
	7	759	71.0	0.32	82°	D											
	8	759	72.5	0.29	70°	D											
	9	760	74.0	0.75	88°	D											
	10	760	77.1	0.57	77°	D											
	11	760	79.6	0.77	77°	D											
	12	760	80.5	0.86	75°	D											
	13	760	82.8	0.83	54°	U											
	14	760	84.1	1.36	75°	D											
	15	759	85.4	0.49	340°	U											
	16	759	86.1	2.20	300°	U											
	17	759	87.2	1.97	303°	U											
	18	758	86.9	2.01	290°	U											
	19	758	85.6	3.10	297°	U											
	20	758	84.4	2.74	295°	U											
	21	758	82.2	2.33	309°	U											
	22	758	80.6	1.80	302°	U											
	23	758	78.7	2.32	307°	U											
	24	758	77.8	2.34	307°	U											
07/23/16	1	762	80	0	56°	U	6	88°	18	286°	D	8	118°	16	295°	302°	
	2	762	79.1	0.51	307°	U											
	3	762	78.3	0.31	359°	U											
	4	762	77.3	0.41	79°	D											
	5	762	76.7	0.65	75°	D											
	6	762	76.3	0.61	76°	D											
	7	762	76.9	0.21	324°	U											
	8	762	79.5	0.91	298°	U											
	9	762	83.3	1.53	297°	U											
	10	762	86.9	1.63	297°	U											
	11	762	86.9	1.37	311°	U											
	12	762	86.6	2.40	302°	U											
	13	762	87.0	2.61	300°	U											
	14	762	86.7	1.17	304°	U											
	15	761	87.1	1.57	90°	D											
	16	761	85.6	1.85	96°	D											
	17	761	81.5	0.85	228°	U											
	18	761	77.3	3.04	295°	U											
	19	760	74.3	1.23	309°	U											
	20	761	75.0	1.36	110°	D											
	21	761	73.3	1.76	295°	U											
	22	761															

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07/26/16	1	763	72.9	1.23	68°	D	18	101°	6	208°	19	97°	5	244°	92°		
	2	763	71.7	0.94	86°	D											
	3	763	71.0	0.74	94°	D											
	4	764	70.1	0.85	106°	D											
	5	764	69.5	0.59	121°	D											
	6	764	69.0	0.36	123°	D											
	7	764	69.5	0.39	131°	D											
	8	764	71.9	0.34	166°	U											
	9	764	77.7	0.30	141°	D											
	10	764	83.5	0.68	170°	U											
	11	764	84.8	0.82	271°	U											
	12	764	86.2	0.42	121°	D											
	13	764	88.0	0.89	105°	D											
	14	763	87.8	1.74	306°	U											
	15	763	87.7	1.25	72°	D											
	16	763	89.1	1.40	91°	D											
	17	763	88.6	1.36	82°	D											
	18	762	88.3	0.53	123°	D											
	19	763	88.1	0.69	305°	U											
	20	763	85.7	1.51	120°	D											
	21	763	81.6	1.05	89°	D											
	22	763	78.1	1.15	75°	D											
	23	763	75.8	0.69	71°	D											
	24	763	75.0	0.30	31°	U											
07/29/16	1	761	70.4	0.65	194°	U	2	126°	22	204°	2	126°	22	204°	200°		
	2	761	70.1	0.77	173°	U											
	3	761	69.5	0.78	178°	U											
	4	761	69.5	1.16	155°	U											
	5	761	69.5	0.60	182°	U											
	6	761	69.3	0.71	182°	U											
	7	761	69.7	1.06	174°	U											
	8	761	70.6	1.11	158°	U											
	9	761	72.6	0.71	191°	U											
	10	761	73.8	0.81	291°	U											
	11	761	75.7	0.86	277°	U											
	12	761	77.4	0.95	255°	U											
	13	761	77.1	0.91	245°	U											
	14	761	75.8	0.91	162°	U											
	15	761	74.7	0.57	136°	D											
	16	761	74.4	0.99	170°	U											
	17	761	74.3	1.37	270°	U											
	18	761	68.1	0.71	117°	D											
	19	761	70.3	2.41	295°	U											
	20	762	70.2	0.56	234°	U											
	21	762	69.8	0.88	172°	U											
	22	762	69.6	0.59	182°	U											
	23	762	69.6	0.81	162°	U											
	24	762	69.5	1.01	174°	U											